

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention can be more fully understood by reading the subsequent detailed description in conjunction with the examples and references made to the accompanying drawings, wherein:

Fig. 1 is a conventional ridge-and-fringe-field vertical alignment structure;

Fig. 2 is a conventional multi-domain vertical-aligned structure;

Fig. 3 is a perspective diagram of the LCD of the present invention;

Fig. 4A is the top view of Fig.3;

Fig. 4B is the cross-section diagram along line bb' of Fig.4A;

Fig. 4C is the cross-sectional diagram along line aa' of Fig. 4A;

Fig. 5A is the top view of the liquid crystal molecules with horizontal arrangement in the display cell of the present invention when no external voltage is applied;

Fig. 5B shows the arrangement of the liquid crystal molecules when an external voltage is applied;

Fig. 6A is the cross-sectional view of the liquid crystal molecules in a vertical arrangement in the present invention, when no external voltage is applied across the electrode pair;

Fig. 6B is a diagram of liquid crystal molecules when an external voltage is applied in Fig. 6A;

Figs. 7A to 7D are the four possible designs of the electrode pair;

Fig. 8A is the top view of the multi-electrode pairs of the present invention;

Fig. 8B is the cross-sectional diagram of Fig.8A along line aa;

Fig. 9A shows the electrode pair of the present invention located in the center of the display cell;

Fig. 9B shows the electrode pairs located at the corners of the display cell;

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